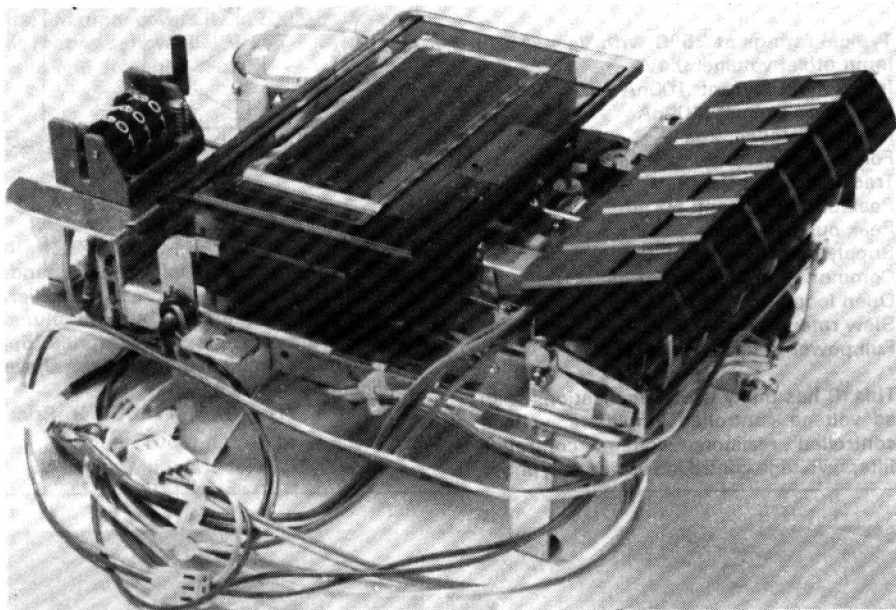


Superb quality genuine JVC CASSETTE MECHANISM



A complete mechanism for standard cassettes made to a high specification by JVC. Complete with erase and stereo record/replay heads, motor with speed control, three-digit counter with zeroing button, end of tape sensor with automatic damped ejector; fast forward, fast rewind, record, play, pause and eject buttons. Just connect the wires as follows:

Red to +12V

Black to 0V

Red/Blue/Screen to left channel record/replay equalised pre-amplifier

Red/Blue/Screen to right channel record/replay equalised pre-amplifier

White/Screen to bias oscillator for erase head. Limited stocks, so hurry, order now — while stocks last only.

Order As XY32K (Cassette Mechanism)
Price £14.95

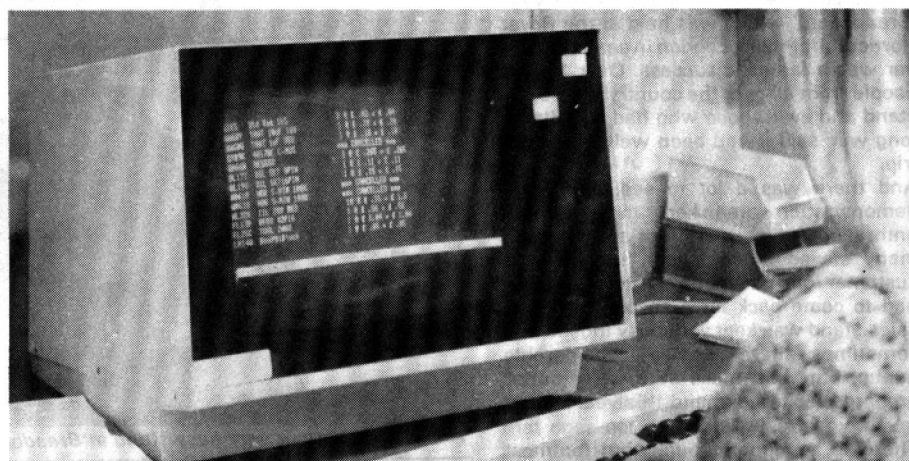
NEW COMPUTER IS OPERATIONAL

Our new computer installed just four months ago is already helping us to cope with the paperwork involved in dealing with all your orders. For some years now, our all-manual system has been struggling under the strain of coping with over 1,000 orders a day and correlating all the information. The computer will also help us to be even better in stock — you should be noticing already how few lines are out of stock — because it can analyse trends and tell us to reorder if necessary before we would normally have done so.

Changing our manual system over has meant a considerable reorganisation in the way your order is handled. Every customer is now allocated a customer number and details of all his orders are held under that number. If you forget your number, the computer can still locate your details from your name, but this takes a little longer. So if you do have to write or phone us, it helps a lot if you can give us your customer number.

Now that we are able to send you a proper printed invoice we shall no longer be sending you a copy of your order form so it is more important than ever that you do keep a copy of your order. Also you won't be receiving a packing slip any more as we can now find all the details of your order without the slip by using the computer's cross-reference system.

We are all looking forward now, to being able to give you even better service — in fact just about the best there is.

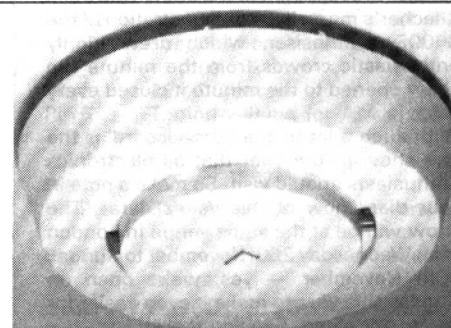


PROTECT YOUR HOME AND FAMILY with our superb quality SMOKE DETECTOR

- ★ Easy to fix to wall or ceiling.
- ★ Completely self-contained — no external connections required.
- ★ Detects visible and invisible smoke.
- ★ Loud horn can awaken sound sleepers behind closed doors.

- ★ Free high power battery (PP3 size) lasts 1 year approx.
- ★ Automatic warning when battery low.
- ★ Test button checks all detector functions.
- ★ Unobtrusive white unit only 19cms (7½ ins.) diameter.
- ★ Guaranteed for two years.
- ★ Ready-built, just connect the internal battery.

Order As XY33L (Smoke Detector Type 1)
Price £11.75



Letters to the Editor

High Speed Record Deck

Dear Friends at Maplin,
I was in need of a good record deck, but shopping around could find only prices which made my hair stand on end.

My son-in-law said: "Try Maplin." I borrowed his catalogue and price list, rang Maplin, confirmed prices, sent off order with cheque.

Blow me down, it was delivered to my door within six days. Hardly time to put your cheque book away.

Maplin Newsletters should be published in the National Press so that everyone can see that GOOD, FAST, FIRST CLASS SERVICE is still possible.

Thanks a million, MAPLIN.

H. GARDINER
Stroud, Gloucestershire.

Our normal service is, of course, to despatch the goods on the day we receive the order and we must apologise to everyone who had to wait during January and February when we got a few days behind.

Quick Questions

Dear Sir,
I have a few questions to ask you, and a few ideas to suggest.

1) Have you thought of selling developing trays for pcbs?

2) You say that in the burglar alarm kit that the key switch is the most vulnerable point. Then why not design a combination lock (electronic)?

3) You have all the parts available, so why didn't you make your tuner digital?

4) What is the rough price of your amp?

5) Why not sell some decent medium to high power speaker cones, and then you could design a system for your amp.

6) Why the sudden disappearance of staples from the newsletter?

Yours Faithfully
JAMES KILLICK
York.

1. Problem is they need a lot of packing otherwise they would get broken in the post — this means they would be heavy and hence very expensive. Do you know it costs us 93p to post a 750g packet nowadays?

2. Actually it's the wires to the keyswitch that are vulnerable, but a combination lock would be an interesting little project.

3. Adds a lot to the cost, but fairly easy to do.

4. Our stereo amp kit is £251.65 including all the metalwork.

5. There are so many hi-fi speakers around and our amp will drive any of them — and sound great as well.

6. We have about 100,000 copies of each newsletter printed and not having staples saves a lot of money in labour costs and it means the printer can finish them much more quickly.

Drumsette For Sale

Drumsette Rhythm Generator for sale. Fully built and working. Hardly used — excellent condition. Reason for sale: I'm bored and I want to make something else! £47 ono.

ANDY INMAN
82 Wootton Way
Maidenhead, Berks.
Phone: 35361 (home)
or Bracknell 3222 Ext. 393 (work)

Mica Washers Join Rock Collection

Dear Editor,
Upon opening my latest order, I was surprised to find that the mica insulating washers I had ordered were covered in black streaks, so being a geologist I set about finding out what had caused these curious marks. I found that breakdown of radioactive isotopes in the mica many millions of years ago was the cause of situation.

This naturally rendered my washer unusable (not that they wouldn't work of course) as they were put straight away into my collection of rocks, so now I shall have to buy some more. Thank you to Maplin for a great service.

Yours Truly
A. HOUGHTON
Gt. Bookham, Surrey

Sad to say that most of the "mica" washers we buy nowadays are in fact some kind of plastic (much better we're told), but how much more interesting the real thing is.

Thoughts On 5600S Synth

Dear Sir,
I have received my copy of the 5600S synthesiser book — thank you. Your improved circuits are very interesting. I particularly like your keyboard encoder circuitry — well thought out. I have noted one or two points, as follows:

1. pp.8-9. I see you are still using ZD3-4 to prevent overvoltage on the 7 volt rails at switch on, when ZD5 & 7 provide this function in addition to protecting the 7 volt rails in the case of accidental contact with a 14 volt rail, thus rendering ZD3 & 4 superfluous. You could perhaps have added two 16v zeners between the 0 volt rail and the bases of Q5 & 8 to prevent overvoltage on the 14 volt rails. Also you could have added two 1N4001 diodes from the 14 volt rails to ground (cathodes to positive) to provide additional protection in case the two 14 volt rails are shorted together. The use of a 78L05 for IC1 is a very good idea — wish I'd thought of that!

2. p.13. IC7 & IC8 have some small lines linking the latches to IC5 pin 4 missing. And the junction of R61 & C15 is shown as going to IC12-14 as well as the correct connection from the junction of R61 & C13.

3. p.18. I like the preset mounting board and the improved layout for the oscillator board.

4. pp.25,26. Why have you added C7 to the VCA (C18 on envelope)? This was obviously an afterthought as it was not on the 4600 VCA nor in your photos in the 5600 book.

5. In the specifications (p.3-6) you mention outputs to (and inputs from) a computer or MPU; however, the appropriate sockets are not wired up and (because?) part of the interface circuit is missing. You should say that "allowance is made for connection to a MPU to be added."

6. While you were redesigning why did you not substitute 741 IC's where in the original (4600) 301's were used with 33p compensation capacitors? I note that you did it with the noise generator. At present prices this would give a saving of 15p per IC or £6.75 for a 5600. Also the use of the expensive LH0042C in the Keyboard Controller seems odd when the cheaper (about ¼) CA3140 with similar specifications is used in the Sample and Noise.

I haven't studied the rest of your improvements in detail yet, but they look very interesting and on balance I think it was worth the long wait.

Yours Faithfully
REX I. G. PALMER
Ascot, Berks.

1. ZD5 and 7 do not protect the series transistor and ZD3 and 4 do. We could have added the other parts you mention, but we thought they would protect against faults that were much less likely to occur.

2. The small lines missing are only part of the internal representation of the IC and the other error is correct on the circuit board.

4. This capacitor suppresses clicks caused by fast transients on pin 8 of the VCA.

5. Hopefully we shall have more news of this part of the synthesiser shortly.

6. On the 301's with a 33pF compensation capacitor, a 741 would have sufficed. We changed over on the boards we redesigned, but overlooked this point on the other boards. The LH0042C has to be used in the keyboard controller. We did try to make the CA3140 and other less expensive chips work, but their intrinsic droop rate is just too high and even a few millivolts is too much as the ear is tremendously sensitive to a note flattening or sharpening slightly.

Drawbars For MES53

Dear Sirs,
I am seeking six drawbars white (BR42V) to complete a project. These items, I believe, are no longer stocked by you.

I wondered if any reader has one or more of these items that they no longer require. If so, I would be pleased if they could contact me.

Yours Sincerely
W. J. BARKER
Harrogate, N. Yorks.

We are hoping to have a new style of drawbar available very soon now. It was most regrettable that the manufacturer of the one we have been selling, decided to stop producing it.

MM57160 Circuits

Dear Sir,
I wonder if you can help me? I need an application sheet, or at least all detailed information available, on the MM57160 STAC illustrated on page 245 of your current catalogue.

What I wish to do is switch on and off, at preset times, four completely independent mains circuits, and this chip appears to be capable of doing this. I would also want the timing to be independent of mains failure, so would be interested in driving it from your crystal, via appropriate dividers, as suggested in the catalogue.

It is difficult to interpret your necessarily abbreviated data, hence my request.

I hope you can help, and please let me know if you require a contribution for expenses.

Yours Faithfully
S. C. HOWARD
Chelmsford, Essex.

Our January 1979 newsletter reprint price 15p contains a lot more detailed information about the MM57160, or we can supply copies of the manufacturers data sheet for 25p. For some reason known only to themselves, the manufacturers of this IC have decided to discontinue it and although we have good stocks at the moment, there will not be any more available so if you want one I advise you to get it now.

Erotic Pictures In Maplin Catalogue

Sir,
This order — to use up credit — will be my last one with you. Your defence of the sale of erotic material in a newsletter last year (in reply to a customer's letter) turned me right off Maplin's.

It was sad to see such ethical irresponsibility in a company with an otherwise commendable approach.

No longer Faithfully Yours
DUNCAN MUNN
Ashted, Surrey.

P.S.: Just so that no-one is disappointed, I would like to point out that you'll find more erotic pictures in the 'Sun' than you will in our catalogue.

Toroidal Transformers

Dear Sir,
I am at present building two of your 150W amps. However, on looking at your power supply, it uses a conventional transformer.

Wanting a lower 'field' emitting device, I contacted AVEL-LINDBERG LTD. with the idea of using an off-the-shelf toroid. Unfortunately none are available, but they would be prepared to design and build a suitable toroid for a small fee.

Thus, is it possible for Maplin to approach this (or another) company, with regard to offering a toroid for the 150W amp.

Having run a portable disco for several years, I find transformer pick up — through the cartridges mainly — a great nuisance. Toroids help reduce this drastically!

Yours Faithfully
DEREK N. WALTON
Warrington, Cheshire

I would be very surprised if there were any audible hum from the mains transformer in our 150W Amps unless it was placed very close to the input. You will not suffer from this kind of pick-up if you use ceramic and not magnetic cartridges which are very prone to this kind of interference. We do not think that anyone would be able to hear the difference between our standard transformer and a toroid if you use ceramic cartridges as specified in our disco.

Swap Organ For Piano

Dear Sir,
Would you please advertise in your newsletter that I would like to swap my Maplin MES51 & 52 organ, with pedal section of MES53 organ, complete with amplifier and speaker, including spring line, and housed complete in a teak cabinet, for a Maplin touch sensitive piano.

Yours Sincerely
D. FENTUM
19 Ringwood Road,
Bridgwater, Somerset

Mike Beecher Is The Eighth Wonder Of The World

Dear Sir,
Firstly, may I say that I and many of my colleagues consider your catalogue to be a first rate product, providing an absorbing read when there's nothing much on the box.

However, being reduced to nit-picking, would it be possible to print the newsletter/price list on slightly smaller paper so that it will fit inside the cover of the catalogue without standing proud and thus getting easily torn.

Further on the subject of the newsletter, I am always amazed, when it arrives, that the envelope is handwritten. I wonder if the reason that you are now publishing it three-monthly is because your poor secretaries need the extra month to recover from writers' cramp! Now that your design team have completed the 5600 synth perhaps they could work on an R2D2 to write your envelopes.

My final points concern the 5600 synth and the Breadboard exhibition. Congratulations to everyone concerned for providing such a superb display of products and particularly to Mike Beecher for his demonstration. I visited the show on the Saturday, when the place was a heaving mass, and how Mr. Beecher could remain so cheerful and give such an enthusiastic demonstration will for me be the eighth wonder of the world. On the subject of the synth, could you not get Mr. Beecher to record on cassette a demo, just displaying some of the basic facilities available. My problem is that I am the engineer for my colleague, who is the keyboard player, and as he says the important thing with my instrument is not how many I.C.s it contains or a computer I/O part but the actual sound it makes. Unfortunately he wasn't able to get to Breadboard and so would be unwilling to part with £750 on my say so, musicians are like that. After all an investment of £2 or so would be worth it to anyone contemplating spending so much of their hard-earned cash.

Anyway, something for you to consider, and so with many thanks in anticipation for all the excellent service I know we will all receive in the New Year.

Yours Faithfully
MARC DECKER
Stirchley, Birmingham

We always have so much to pack into the newsletter (last time we had to have an extra page) that I am loath to lose that extra centimetre or so on each page; perhaps we could increase the size of the catalogue slightly instead. I am sure Mike Beecher will make a cassette for us demonstrating the 5600S to tie in with the publication of the book he is writing about how to play the instrument.

Cheap Shortwave Superhet Kit Wanted

Dear Sir,
Thank you for the spares which arrived here in record time, as usual. I hope you do not mind, but I have noticed that there is a gap in the market, which you might be interested in filling. This would be for a reliable, simple to build SW radio kit for about £25. (One board, superhet, with an output around 500mv.) This could be the nucleus of a very interesting project — later could follow LS amplifier, digital readout, etc. To this end, the basic kit would have to be very stable (zeners?) — surely a basic SW about 6 transistor could be produced (less case) for £25 or so, allowing a good margin of profit?

If varicap tuning was used, people could add their own pots and make it even more basic. You could quite easily drive FRG7 etc right off the market by this modular approach, because the final product would be equal, if not superior.

It would have the effect of expanding the numbers of people building SW radios to the same numbers building their own Hi-Fi and stereo equipment. At the moment, the most basic kit available is about £60 altogether, and comes complete with all sorts of parts which most amateurs already have in their junk boxes, and it cannot be built in stages.

Yours Sincerely
W. CHRIGWIN
Bagillt, Clwyd.

Any designers out there interested? We pay (better than most) for good designs!

Letters to the Editor

Cable Is Microphonic

Dear Sir,
I am writing to do something which I thought I wouldn't do, which is to complain. I ordered from you some twin core screened cable order code XR08U, which is advertised as of suitable quality for low level mikes. They were ordered and made up, and it was found that when used with a stereo guitar and a mike, the cable was extremely microphonic, with noise generated when the cable was flexed or tapped. The connections were quickly cleared and the cable proved poor. Fortunately, the guy who the leads were made up for could understand the problem, but I was put in an awkward spot.

Perhaps you could include in your already wide range some very high quality mono and stereo cable, this could clear up the difficulty. Price would be no great worry if the stuff was pukka wallop. Otherwise, I find your service excellent in the extreme and enclose another order to you. It is a pity the Post Office cannot match your service.

Yours
S. D. KAY
High Wycombe, Bucks.

Our Twin Mic Cable is a very high quality cable and this slur on its character is I feel sure quite unjustified. I feel sure that the reason it was microphonic was that the input impedance of the amplifier was high or the impedance of the guitar or mike was high. Strictly speaking it is designed for low impedance systems, say 20 to 100 ohms, but in shortish lengths will be reasonably noiseless up to much higher impedances. For your application our low noise screened (XR18U) will probably work better.

Disco Gets Hot In Malta

Dear Editor,
Your latest catalogue is priceless — utterly priceless. Many might find it expensive but thinking about the service provided by your fantastic company truly clears one's mind of financial expense.

I was truly impressed by your new 150W disco. But haven't you ever read about the ambient temperatures of sunny Malta (36°C-40°C) during the midst of summer. I am not really sure how well those power transistors are going to dissipate that kind of power. Would it be possible to mount the heatsinks externally to the cabinet thus facilitating the use of a small oscillating fan or mounting a small internal fan if it is not possible to mount them internally.

How about a magnetic input?
In Malta the discotheque floors are of tiles laid over solid concrete thus providing a sturdy base — therefore facilitating the use of magnetic cartridges, an alternative input would be appreciated.

How about using the mixer circuitry and producing a kit just for the mixer with an option of either ceramic or magnetic input.

I hope that you would print my letter as the last idea would truly be appreciated by many people — due to the fact that your mixer is very comprehensive.

Thanking you in anticipation
IAN VELLA
Malta.

The heatsinking arrangements in the new disco should be capable of dissipating the heat at full power with ambient temperatures of 40°C without using fans. We hope to publish soon details of a magnetic pick-up input for our disco, but we would stress again that you will find it difficult to hear the difference between even a medium priced magnetic cartridge and a reasonable ceramic cartridge using our ceramic cartridge FET pre-amplifier.

Everything In Stock

Dear Sir,
I recently sent you an order to the value of £20. Having read other customers letters of complaint, I was slightly worried that the components I ordered would be out of stock.

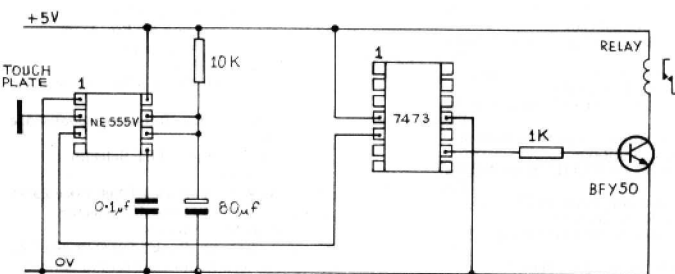
However, my fears were completely unfounded as the components arrived 5 days later and every single component was as ordered. I can only congratulate on this remarkably good and quick service and obvious quality of components and packing. I hope that future orders will yield such satisfaction in your service.

Yours Faithfully
S. CHISSELL
Newbury, Berks.

Touch-Sensitive Switch

Dear Newsletter,
In your catalogue on page 248 you have an excellent article on the NE555V.

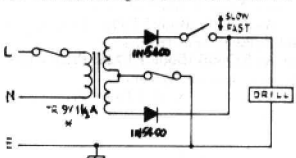
I built the time delay very successfully and by accident I discovered that by touching pin 2 the O/P went high for the period set by RA and C. I then placed pin 3 into the clock I/P of a 7473 flip flop, and had the delay on about 1 sec. using 10 Ω for RA and 80uf for C. The O/P was then



More Drill Accessories

Dear Sir,
I wonder whether you have considered increasing your range of PCB Drill accessories to include such items as reamers, saws, buffers, brushes and the like, which would increase the versatility of your drills. Also, intermediate diameters of small twist drills would be very useful for fitting components more accurately into PCBs. Incidentally, I find that your 0.8mm drills blunt very rapidly after drilling a few tens of holes for ICs in your Glass Fibre PCBs.

Below is a lost-cost power supply which I find is an acceptable alternative to your BW04E for driving the Titan drill. With the



switch in the "Fast" position a direct voltage of 9V RMS (12.5V pk) is applied to the drill, and this seems quite sufficient. In the "Slow" position the current is half-wave rectified, giving 4.5V RMS, but still 12.5V pk, providing plenty of torque at a lower speed.

Yours Faithfully
ALAN PEMBERTON
Sheffield.

We may well include some extra accessories for our drills in the next catalogue. Most small drills will blunt in fibre glass, but their life can be considerably extended by keeping the bit lubricated with sewing-machine oil whilst in use.

'PE' Diamatic Popular Project

Dear Sirs,
I am having some difficulty in locating a source for all the IC's and the transformer assembly required for the P.E. Diamatic (Nov/Dec 1979), although you can supply nearly all the other components required.

As I anticipate this to be a popular project, perhaps you could consider adding these items to your catalogue i.e.:

- MC14046 Phase locked loop
- MC14528 Dual re-triggerable monostable
- MC3403 Quad OP-Amp
- FX2238 Mullard pot core, etc.

and perhaps a screen printed front panel. I would echo the views of your correspondent in the May issue of your newsletter requesting blank cassettes to be added to your range.

Yours Faithfully
C. REDWOOD
Poole, Dorset.

We already stock the MC3403 — listed as 3403 (QH51F) and MC14046 — listed as 4046BE (QW32K) and MC14528 — listed as 4098BE (QX29G). Unfortunately we cannot help with the FX2238 and we do not plan to produce a screen printed front panel for this project. We may be able to include some blank cassettes in our next catalogue.

taken from pin 9 of the 7473 to a transistor and relay to switch appliance.

When pin 2 is touched first time the O/P goes high and turns on relay, when touched second time the O/P goes low and turns off the relay.

I have used this circuit to turn a amp on and off successfully. I wondered if you would like to use it in your (N.L.).

Yours
MR. B. M. PEARCE
Churchdown, Glos.

Can The Computer Cope?

Dear Sir,
I wish to draw your attention to your reply to R. W. Baldwin's letter in your November newsletter. Your reply to part two does not make sense. I hope this is not your word processor suppressing criticism of its brother in the finance office.

Could you please publish your reply to this letter. I order regularly from two different addresses, and the new system may well cause problems for me.

Yours Faithfully
C. R. RITSON
Claverley, Wolverhampton.

Sorry about the answer to Mr. Baldwin's letter, part of which is repeated below. If you order from different addresses we can either change your address as required if you quote your customer number, or you can use a different customer number from each address. We hope to refine the system later to allow multiple addresses (mainly for companies with lots of branches).

Correct Answer To Mr. Baldwin's Letter

Dear Sir,
Why not send out along with the order form and prepaid reply envelope, the self-adhesive label which appears on our parcels, so that we can address them ourselves.

Yours Faithfully
R. BALDWIN
Lancaster

Now that the computer is operational, it will print your address label automatically and also address your next order form for you.

Useful Catalogue

Dear Sir,
After I have looked through your catalogue I couldn't believe that you actually stock such a big variety of products in the electronic field. Although I have not yet ordered anything from you I surely will in future because of the variety and the low prices which are much cheaper than prices almost anywhere in the R.S.A. It is only in the hardware section where I have found that South African prices are sometimes considerably cheaper.

You have a wonderful component section but the semiconductor side is not really as big as I have thought it would have been (the transistor types in particular) but it is quite satisfying. The book section is very attractive and impressive and has something for everyone. I would like to conclude by saying that MAPLIN STANDS OUT IN THE FIELD OF THE ELECTRONIC HOBBIES LIKE THE MAPLIN CAPELLA DOES ON THE COVER OF THE CATALOGUE.

Thank you for such a useful catalogue.
Yours Sincerely
CHRIS KLEYNHANS
Brakpan, Republic of South Africa

PS: I am asking you to forgive me for my poor use of English because it is not actually by homelanguage.

We are hoping to have a much expanded semiconductor section in our catalogue, but we are looking to increase the IC side rather than the transistor side.

Separate IC Data Book Better

Dear Editor,
Why do so many people complain about the lack of IC information in your catalogue? I have searched for data-books, but pages 218-257 in your catalogue beats them all. Although you say that more information will be put in the 1981 catalogue, I think that Mr. Pearmund's idea of a separate data book is far the best.

I must praise your good service, your wide range of goods, and now your ready-addressed order forms. I hope that the list of my order printed on computer paper that I received with my last order was not a one-off thing, it is much better than the usual photocopy.

Unfortunately, I have two complaints:—
1. In one order I received credit, but due to an incorrect amount sent, some covering cloth was removed in debit. I would have preferred to have had the cloth, with the extra cost taken from my credit.

2. When a particular colour of component is not in stock, it is cancelled, and credit given, e.g. when I ordered a red alligator clip and a black one, the red one was sent, but the black one was out of stock and was cancelled. I would prefer that you'd sent me two red ones.

Despite these, I thank you for your excellent service.

Yours Faithfully
D. P. EDWARDS
Marlow, Bucks.

Although we had planned an IC data book, the costs involved turned out to be just too great, so instead we have decided to make available copies of manufacturers' data sheets for 25p and put a little more information on each IC in our next catalogue. With regard to your first complaint, we have now rectified this silly practice and you should not find it happening any more. As to your second point, we cannot really supply anything other than what is ordered. What may be a suitable replacement for you may not be for someone else, but we are all very hopeful that now we have our computer system we shall be able to a very large extent to put paid to being out of stock of this kind of fast-selling component.

Cream For Our Cat

Dear Sirs,
There is a story that has been going about for quite a while among a lot of electronic enthusiasts, that only the manufacturers get the cream of components i.e. best specification I.C.s, lowest noise transistors, better tolerance resistors etcetera, and that us constructors only get the remnants.

Is this fact or fallacy?
Yours Sincerely
GEOFF ADAMS
Christchurch, Dorset.

It is, of course, not possible to speak for other suppliers, and certainly there is plenty of second-rate product about, but we only buy and supply first-grade product, and the majority of it comes from the same batches that are supplied to manufacturers. Of course, lots of manufacturers do specify and pay more for higher specification components. However, the quality of components we supply is the same as that supplied by the franchised wholesalers or any other respectable source.

4600 Synthesiser For Sale

Dear Sir,
I have recently completed the construction of an International 4600 synthesizer, using parts from your goodselves, of course. I must say that the service you have given to me over the past few years has been superb. Due to the high cost of my next project, I will have to, reluctantly, sell my 4600 synthesizer. Would interested readers please contact me at the address below, for further details and price required:

Mr. A. Sinclair,
24 St. Mary's Drive,
Hedon, Hull.
Telephone: 0482 896881.

Yours Faithfully
A. SINCLAIR